

### Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Texas

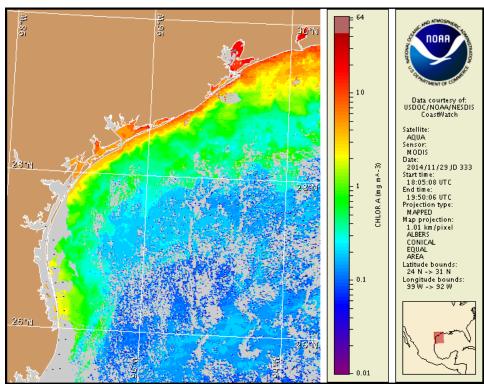
Monday, 01 December 2014

NOAA National Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Monday, November 24, 2014



Satellite chlorophyll image with possible *K. brevis* HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from November 21 to 26: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

http://tidesandcurrents.noaa.gov/hab/habfs\_bulletin\_guide.pdf

Detailed sample information can be obtained through the Texas Parks and Wildlife Department at: http://www.tpwd.state.tx.us./landwater/water/environconcerns/hab/redtide/status.phtml

http://tidesandcurrents.noaa.gov/hab/bulletins.html

## **Conditions Report**

*Karenia brevis* (commonly known as Texas red tide) ranges from not present to background concentrations along the coast of Texas. No respiratory irritation is expected alongshore Texas Monday, December 1 through Monday, December 8. Check <a href="http://tidesandcurrents.noaa.gov/hab/beach\_conditions.html">http://tidesandcurrents.noaa.gov/hab/beach\_conditions.html</a> for recent, local observations.

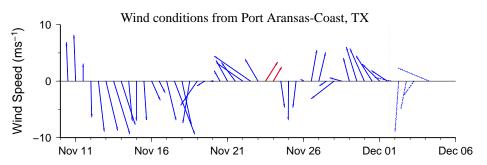
#### **Analysis**

Sampling from Texas A&M University's Imaging FlowCytobot, located on the Port Aransas ship channel, continues to indicate that *Karenia brevis* concentrations range between 'not present' and 'background' (TAMU; 11/25-12/1). For information on area shellfish restrictions, contact the Texas Department of State Health Services.

Recent MODIS Aqua imagery (11/29, shown left), is partially obscured by clouds, limiting analysis along Padre Island National Seashore and in the South Padre Island region. Elevated chlorophyll (2-10  $\mu$ g/L) is visible stretching along- and offshore from Sabine Pass to Mustang Island. Elevated chlorophyll is not necessarily indicative of the presence of *K. brevis* and is most likely due to the resuspension of benthic chlorophyll and sediments along the coast.

Forecast models based on predicted near-surface currents indicate a potential maximum transport of 25km south from the Port Aransas region from November 29 - December 4.

#### Derner, Kavanaugh

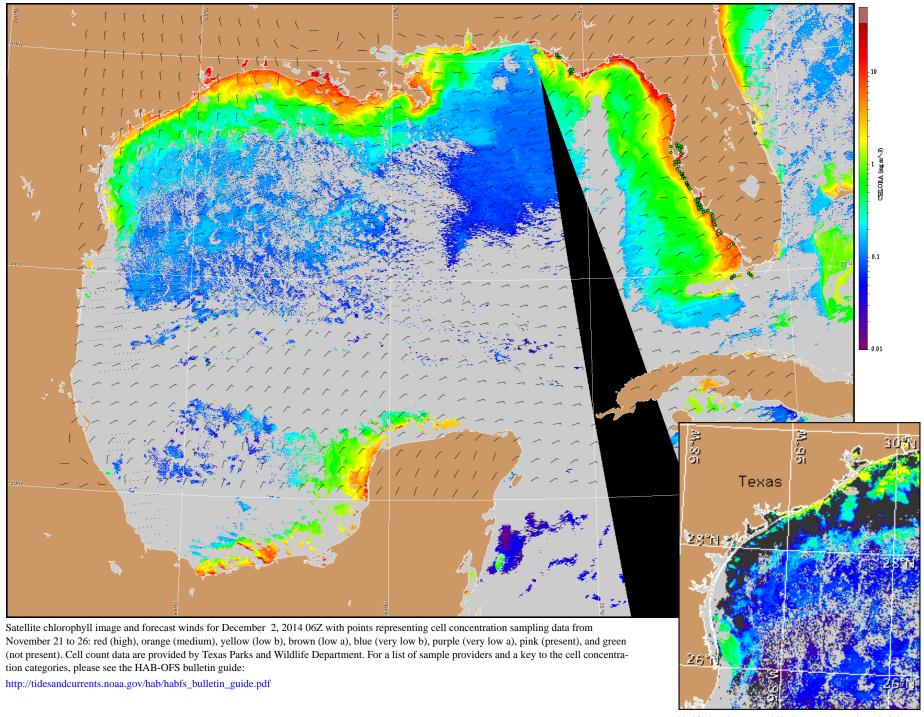


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

# Wind Analysis

**Port Aransas**: Southeast to east winds (5-10kn, 3-5m/s) today becoming northeast (10-15kn, 5-8m/s) late today. North winds (10-25kn, 5-13m/s) tonight through Tuesday. Northeast winds (10-15kn) Tuesday night becoming east (5-10kn) after midnight. East winds (5-10kn) Wednesday becoming southeast (5-10kn) Wednesday night through Friday night.

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit the NOAA Harmful Algal Bloom Operational Forecast System bulletin archive:



Verified and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).